Inventor: GIJZEN SN 08/939,905/Sheet 1 of 15 Atty. Dkt.: 76-105



FIGURE 1A

												I	ATG(GGT"	rcc	ATG	CG1	rci	'AT'	Г	20
													M	G	S	M	R	<u> </u>	<u>.]</u>	<u>[</u>	
											pr:	x9+		~	>						
AGTA	GTG(GCA'	TTG	rtg'	rgr	GCA.	rtt	GCT	ATG	CATO	GCA(GGT:	[TTT	ΓCA	GTC'	TCT	'TAT	rgc	CTC	A	0.8
V	V	A	L	L	C	A	F	A	M	H	A	G	F	S	V	S	Y		<u>7</u> (Q	1
					:	sign	nal	se	quei	nce											
GCTT	מ כיתיו	പ്പു	ል ሮር'	ጉጥር	דא כי.	AGA	ΙΔΑΣ	מרם'	ТСТ	CCA	ТДД	CTG'	rrc	CCT	ATT	GTG	TT'	rg(3AG	${f T}$	140
L	T	P	Т	F	Y	R	E	Т	C	P	N	I.i	F	P	Ι	V	F	G			21
- AATC			prx				رب بر بر. س	ccc	CCN.	አ ጥርሳ	aca	acc	א כשי	ሮሞሮ	יז/יתימי	a CC	יידוי ר) יַּ	ጥሮ፤	יוייני ע	ጥ	200
AATC	TTC F	GAT D	GCT A	TCT S	TTC F	ACC T	GAI D	P	R	AIC I	G G	A	S	L	M M	R	L	_		F	41
	L.	ע	•	5	•	•	D	-	••	_		. <u>. </u>			act					_	
						I												< - ·			
TCAT														'GAA N				ATA D	ACA T	$_{ m I}$	260 61
<u>H</u> _	D	<u> </u>	F	V	Q	G	· C	D) G	S	V	1.1	ı L	ı I\	1 1/		L	ט	T	±	0.1
pr	x10							pr	`x2+	_ _		>									
AGAA				GAT	'GCA	CTT	'CCA	raa.	ATC	AAC	TCP	ATA	AGA	\GGP	OTTA	GA(320
E	S	E	Q	D	A	L	P	N	Ι	N	S	Ι	R	G	L	D	V	•	V	И	81
TGAC	ATC	AAC	SAC <i>F</i>	\GC6	GTG	GAA	raa.	`AG'I	TGT	CCA	\GA(CACA	ιGΤΊ	TCI	rTG1	rgc'	TGA	AT	TTC	CT	380
D	I	K	Т	A	V	E	N	S	C	P	D	T	V	S	С	A			I	L	101
TGCT	n w cm a	naa	א כו כור	ሆ <i>ር</i> ነ ነ	ידי א <i>ו</i> י	י מימיו	ր դ ի (Կո	րՀունո	ኮሮሞር	II z Go	2 D C2 C	17 CC	፡ ሞሮር	ገ ል ር (ነጥ ፈ ድ	3GC	$C\Delta C$	ተጥጥ	'CCI	ጥጥ	440
TGC	ratu T	rGCA A	AGC. A	E E	AAIA I	A A	S S	v. V	L			G (P	v	P	L	121
• •	-				_																
											a a m	T (2) (2)	n -11 - 10 - 1	T1 (~1 70	~ ~ ~ ~	aam	ma	ግጽረ	3 C 3 A .	20	E 0.0
AGG				CAG(S	CTT) L	AAC T	AGC) A	AAA N		AAC(T	"I-DC L	rgca A	и Ада.	rca. O	AAA N			JAG P	A A	P P	500 141
G	R	R	D	۵	نا	7	A	14	K	1		A	14	×	7.4	-	•	•	11	*	
TŢŢ	CTT	CAA	CCT	CAC	TCA	ACT'															560
F	F	N	L	T	Q	L	K	A	S	F	A	V	Q	G	I	, N	j '	Γ	L	D	161
					I	ΙΙ															
TTT	AGT	TAC	ACT	СТС	AG	 GTG	GTC	ATA	.CGT	TTG	GAA	GAG	CTC	GGT	'GCA	GT	ACA!	TT	CAT	AAA	620
<u>L</u>	V	T	L	S		G	G	<u>H</u>	<u>T</u>	F	G	R	A	R	C	S	Т	F	I	N	181
	h	.eme	-bi	ndi	ng	dom	ain														
CCG	יייי מי	מיחמי	ממט	Corre	CAG	מ מים:	CAC	ፐርር	AAA	.CCC	'TGA	TCC	AAC	TCT	'GAA	ACA(AAC	CA'	TAC	TT:	68
R														L	. 1			T	Y	L	20
<u> </u>		, m	1/3 ~ ·	1171 ~ ~	1 T T -	ייז א הא	1000	1/1/1	(/~1 Th Th	maia	1 N N C	ገናቦረጎ	t/*t/=t.m	· 1117. 7	\ (\ (\ \ (\ \ \ \ \ \ \ \ \ \ \ \ \	P (~ X 4	רורי ז	Λm	ጥጥረ	3C1V	74
AGA E									AGAA N									M N	L	D	32
Ľ	. v	. 1	A `		_ 1	. •	. •	>	• • •	•	-	_		-	_						
											· -		· - ·		.	n ~ ~	n ~	100 m	1 T T T		2.0
									ACAG			ACTO 1 S					AGC O	TC L	AAT	GG G	80 24
ì	<u>.</u> 5)	T ţ	? I	\mathcal{S}) E	. I		4 F	,)	L .		, 1	• 4			×	سد	**)	- 1



Inventor: GIJZEN SN 08/939,905/Sheet 2 of 15 Atty. Dkt.: 76-105

FIGURE 1B

CTTACTTCAGAGTGACCAAGAACTTTTCTCCACTCCTGGTGCTGATACCATTCCCATTGT												860								
L	L	Q	S	D	Q	E	L	F	S	Т	P	G	A	D	T	Ι	P	I	V	261
							<	-		prx	6 -		-							
CAAT	rago	CTTC	'AGC	'AGT	AAC	CAG.								AGA	GTT.	TCA	ATG	ATA	AA	920
N	S	F	S	S	N	Q	И	Т	F	F	S	И	F	R	V	S	M		K	281
AAT	GGG:	raat	TATT	rGGA	\GTG	CTG	ACT	'GGG	GAT	'GAA	\GGA	\GAA	ΓΤΑ.	CGC	CTTG	CAA	TGT	raa'	TT	980
M	G	N	I	G	V	L	Т	G	D	E	G	E	Ι	R	L	Q	С	N	F	301
							5	aan	3	acama	7000	ama a	ግጒ ች 7	\	חכי כים	ግ	ነ <i>ር</i> አ <i>ፕ</i>	\	בריי	1040
TGT							_					S S	_AAA K	IGA. D	i GC i A	. AAF K	0	K	L	321
V	N	G	D	S	F	G	L	A	S	V	A	ט	K.	ט	A	K	×	1	L	<i>J</i> 4. 4.
ጥርጥ	ጥርር	TCA	አጥሮ "	אבר	ATA	AACC	'AA'	raat	TA.	ATG(GGG2	ATG	rgcz	ATG	CTA	GCT	AGC	ATG'	TAA	1100
V			_	K	*															326
AGG	CAA	TTA.	AGG'	TTG'	IAAT	ACCI	rct:	rtg(CTA(GCT	ATA	TTG.	'AAA	TAA	ACC/	AAA	GGA(GTA:	GTG	1160
TGC	'ATG	TCA	TTA	CGA'	TTT	rgco	CAT	GTA(CCT	CTT	GGA	ATA	ATT.	TGT	AAT.	TAA'	TAT'	TTG	TAA	1220
CTO	TTT	'AAG	GTA	CTT.	TAA	TAA'	rc ()	A) n												



Inventor: GIJZEN SN 08/939,905/Sheet 3 of 15

Atty. Dkt.: 76-105

FIGURE 2A

60 50 30 40 3.0 10 1 GCATCATATCATAAACAATACGTACGTGATATTATCTAGTGTCTCTCAGTTTACTTTATG 61 AGAAATTATTTTTCTTTAAAAAAAGTTAATTAATAAAAACATTTGCGATACCGTGAGTTA 121 CAAGAAATCCGCCGAATTCATCTCTATAAATAAAAGGATCTATATGAGAGGTAAAATCAT 181 ATTAACTCAAAATGGGTTCCATGCGTCTATTAGTAGTGGCATTGTTGTGTGCATTTGCTA 241 TGCATGCAGGTTTTTCAGTCTCTTATGCTCAGCTTACTCCTACGTTCTACAGAGAAACAT 301 GTCCAAATCTGTTCCCTATTGTGTTTTGGAGTAATCTTCGATGCTTCTTTCACCGATCCCC 421 TTTTTTTCCTTCCAAAATGCCCTGCATATTTAACAAGATTGCTTTGTTCACCTAGAAAA 541 GATCAAGAAAATAGCTAGAAAGAAAGCAACGTTTTTTTAAAAAGGTATTTAGTGTGAGAAA 601 AATATTAAAACTGAAGAGAAAGAAATTAAATAAGCTTTTCTTGAATGATATTTACATGTC 731 TTTACCATATTAATTATTACTATATTTCATGATGACAACAGACAAGTATTCTAAAGAGGT 841 ATCGGTAGATGATTAATTTTTTTATAAAAAAATCTTTTGCGTGTATAGATATTCTTTAT 901 AATTGGTGCAGAAACTTGTAATGCTAATTGCAATTAATCTTACATTGATTAACTAATAGC 961 TATAATCAATATTTAGGTTAGGTATAGGAGACAAATCAAGTGATCTGAACAAATTAAGTT 1021 GTTATATTTGCATTGTGACAGGGTTGTGATGGATCAGTTTTGCTGAACAACACTGATACA 1081 ATAGAAAGCGAGCAAGATGCACTTCCAAATATCAACTCAATAAGAGGATTGGACGTTGTC 1141 AATGACATCAAGACAGCGGTGGAAAATAGTTGTCCAGACACAGTTTCTTGTGCTGATATT 1261 AACCATTAAAAAGTTGCATGATTGGATTCAAAATTCTATGGTATTGGGGTTCTGATATAA 1501 GGATGGAATCAGTCAAAACATTTAATTCAAAATACTCTTAATTGTGATTAGTAATCATGT 1621 GCAAGCCGGTTGGTATAGATATCACTGGCCTGTAGAATATGTGGTTTTTCACGTTTAAAT 1741 TATTGACTGTGAAACATGTTTCCACACACAGGCTTAGAAACTCCTCGCAACTAACATCTC 1801 CAAAATTTGACTATTTATTATGAAGATAATTCATCTATGATGTTCAACTCTATTATATA 1861 TATGTATCATCGCAGTATTAAGAATTATAATAGTCAAATATAGAAGTATATCGGGTAAAT 1981 GAAAATAACGATGAACTAAAAACGAAAGGGTATCATATAGTTTGACTTTTATGTTAGAGA 2041 GAGACATCTTAATTTGGTCATATGTTAAATAATTAATTACAATGCATACACAAAATATTTA 2101 TGCCATATCTAAAAAATGATAAAATATCATAGGTATACTCAACTATATGATATCCCCCATA 2221 ATCCACTTAAAGTGGTTCAACATATTTATGTAATAATTTACAGGGAGGAGGACCAGGATG



SN 08/939,905/Sheet 4 of 15 Atty. Dkt.: 76-105

FIGURE 2B

2281	$\tt GCCAGTTCCATTAGGAAGAAGGGACAGCTTAACAGCAAACCGAACCCTTGCAAATCAAAA$
2341	$\verb CCTTCCAGCACCTTTCTTCAACCTCAACTTAAAGCTTCCTTTGCTGTTCAAGGTCT \\$
2401	${\tt CAACACCCTTGATTTAGTTACACTCTCAGGTATACATAATCAATTTTTTTT$
2461	GCTAGCAATAAAAAGTCTCTGATACAGACATATTTAGATAAATTAATT
2521	${\tt TTTATAAAAATTATCAATTTATGTACTTAAAAATTATGGATTGAAGCTCTTTTCATCC}$
2581	AACTTTTACTAAAGTTAAGGTGCATATAATATAAAATAAACTATCTCTTGTTTCTTATAA
2641	AAAGATTGAAGATAAAGTCTACTTATAAATCATTAATATATGTATAGGTGGTCAT
2701	ACGTTTGGAAGAGCTCGGTGCAGTACATTCATAAACCGATTATACAACTTCAGCAACACT
2761	GGAAACCCTGATCCAACTCTGAACACAACATACTTAGAAGTATTGCGTGCAAGATGCCCC
2821	CAGAATGCAACTGGGGATAACCTCACCAATTTGGACCTGAGCACACCTGATCAATTTGAC
2881	AACAGATACTACTCCAATCTTCTGCAGCTCAATGGCTTACTTCAGAGTGACCAAGAACTT
2941	TTCTCCACTCCTGGTGCTGATACCATTCCCATTGTCAATAGCTTCAGCAGTAACCAGAAT
3001	ACTTTCTTTTCCAACTTTAGAGTTTCAATGATAAAAATGGGTAATATTGGAGTGCTGACT
3061	GGGGATGAAGGAGAAATTCGCTTGCAATGTAATTTTGTGAATGGAGACTCGTTTGGATTA
3121	GCTAGTGTGGCGTCCAAAGATGCTAAACAAAAGCTTGTTGCTCAATCTAAATAAA
3181	AATTAATGGGGATGTGCATGCTAGCTAGCATGTAAAGGCAAATTAGGTTGTAAACCTCTT
3241	TGCTAGCTATATTGAAATAAACCAAAGGAGTAGTGTGCATGTCAATTCGATTTTGCCATG
3301	TACCTCTTGGAATATTATGTAATAATTATTTGAATCTCTTTAAGGTACTTAATTAA

SN 08/939,905/Sheet 5 of 15 Atty. Dkt.: 76-105

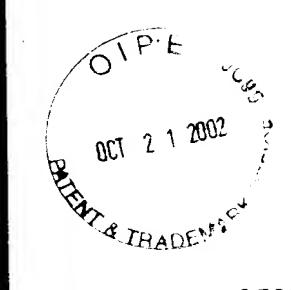


FIGURE 3A-(1)

L78163	ATGGGTTCCATGCGT-CTATTAGTAGTGGCATTGTTG	36
U41657		0
X90693	GGCAAA-CAATGAACTCCCTTCGTGCTGTAGCAATAG-CTTTGTGC	44
X90694	GCTCTTCAAAACAATGAACTCCTTAGCAACTT-CTATGTGG	40
L36156	TTAGCAACTT-CTATGTGG	22
X90692	AATGCTTGGTCTAAGTGCAACAGCTTTTTGCTGTATGG	38
L78163	TGTGCATTT-GCTATGCATGCAGGTTTTTCAGTCTCTTATGC	77
U41657		Ŋ
X90693	TGTATTGTGGTTGTGCTTGGAGGGTTACCCTTCTCTCAAATGC	88
X90694	TGTGTTGTGCTTTAGTTGTGCTTGGAGGACTACCCTTTTCCTCAGATGC	90
L36156	TGTGTTGTGCTTTAGTTGTGCTTGGAGGACTACCCTTTTCCTCAGATGC	72
X90692	TGT-TTGTGCTAATTGGAGGAGTACCCTTTTCAAATGC	75
L78163	TCAGCTTACTCCTACGTTCTACAGAGAAACATGTCCAAATCTGTTCCCTA	127
U41657		0
X90693	GCAACTTGATCCATCCTTTTACAGGAACACTTGTCCAAATGTTAGTTCCA	138
X90694	ACAACTTAGTCCCACTTTTTACAGCAAAACGTGTCCAACTGTTAGTTCCA	140
L36156	ACAACTTAGTCCCACTTTTTACAGCAAAACGTGTCCAACTGTTAGTTCCA	122
X90692	ACAACTAGATCCTTCATTTTACAACAGTACATGTTCTAATCTTGATTCAA	125
NJ00J2		
L78163	TTGTGTTTGGAGTAATCTTCGATGCTTCTTTCACCGATCCCCGAATCGGG	177
U41657		0
X90693	TTGTTCGTGAAGTCATAAGGAGTGTTTCTAAGAAAGATCCTCGTATGCTT	188
X90694	TTGTTAGCAATGTCTTAACAAACGTTTCTAAGACAGATCCTCGCATGCTT	190
L36156	TTGTTAGCAATGTCTTAACAAACGTTTCTAAGACAGATCCTCGCATGCTT	172
X90692	TCGTACGTGGTGTCCACAAATGTTTCACAATCTGATCCCAGAATGCTT	175
L78163	GCCAGTCTCATGAGGCTTCATTTTCATGATTGCTTTGTTCAAGGTTGTGA	227
U41657	TTTCATGATTGCTTTGTTCAAGGTTGTGA	29
X90693	GCTAGTCTTGTCAGGCTTCACTTTCATGACTGTTTTGTTCAAGGTTGTGA	238
X90694	GCTAGTCTCGTCAGGCTTCACTTTCATGACTGTTTTTGTTCTGGGATGTGA	240
L36156	GCTAGTCTCGTCAGGCTTCACTTTCATGACTGTTTTGTTCTGGGATGTGA	222
X90692	GGTAGTCTCATCAGGCTACATTTTCATGACTGTTTTGTTCAAGGTTGCGA **********************************	225
L78163	TGGATCAGTTTTGCTGAACAACACTGATACAATAGAAAGCGAGCAAGATG	277
U41657	TGGATCAGTTTTACTGAACAACACTGATACAATAGAAAGCGAGCAAGATG	79
X90693	TGCATCAGTTTTACTAAACAAAACTGATACCGTTGTGAGTGA	288
X90694	TGCCTCAGTTTTGCTGAACAATACTGCTACAATCGTAAGCGAACAACAAG	290
L36156	TGCCTCAGTTTTGCTGAACAATACTGCTACAATCGTAAGCGAACAACAAG	272
X90692	TGCCTCGATTTTGCTGAACGATACGGCTACAATAGTGAGCGAGC	275
A90092	** **. *** **. * **. * **. * * * * * *	
L78163	CACTTCCAAATATCAACTCAATAAGAGGATTGGACGTTGTCAATGACATC	327
U41657	CACTTCCAAATATCAACTCAATAAGAGGATTGGACGTTGTCAATGACATC	129
X90693	CTTTTCCAAACAGAAACTCATTAAGAGGTTTGGATGTTGTGAATCAAATC	338
X90694	CTTTTCCAAATAACAACTCTCTAAGAGGTTTGGATGTTGTGAATCAGATC	340
L36156	CTTTTCCAAATAACAACTCTCTAAGGGGTTTGGATGTTGTGAATCAGATC	322
X90692	CACCACCAAATAACAACTCCATAAGAGGTTTGGATGTGATAAACCAGATC ****** *. ***** ****** *** *** **	325

OCT 2 1 2002 12 TO THE TRADEMARK

Inventor: GIJZEN SN 08/939,905/Sheet 6 of 15 Atty. Dkt.: 76-105

FIGURE 3A-(2)

L78163	AAGACAGCGGTGGAAAATAGTTGTCCAGACACAGTTTCTTGTGCTGATAT	377
U41657	AAGACAGCGGTGGAAAATAGTTGTCCAGACACAGTTTCTTGTGCTGATAT	179
X90693	AAAACAGCTGTGGAAAAGGCTTGTCCTAACACAGTTTCTTGTGCTGATAT	388
X90694	AAACTGGCTGTAGAAGTGCCTTGTCCTAACACAGTTTCTTGTGCTGATAT	390
L36156	AAAACTGCTGTAGAAAGTGCTTGTCCTAACACAGTTTCTTGTGCTGATAT	372
X90692	AAAACAGCGGTGGAAAATGCTTGTCCTAACACAGTTTCTTGTGCTGATAT	375
	****.**.** ****************	
1.78163	TCTTGCTATTGCAGCTGAAATAGCTTCTGTT-CTGGGAGGAGGTCCAGGA	426
U41657	TCTTGCTATTGCAGCTGAAATAGCTTCTGTTGCTGGGAGGAGGTC-AGGA	228
X90693	TCTTGCTCTTTCTGCTGAATTATCATCTACA-CTGGCAGATGGTCCTGAC	437
X90694	TCTTGCACTTGCTCCTCAAGCATCCTCTGTT-CTGGCACAAGGTCCTAGT	439
1.36156	TCTTGCACTTGCT CAAGCATCCTCTGTT - CTGGCACAAGGTCCTAGT	418
X90692	TCTTGCTCTTTCTGCTGAAATATCATCTGAT-CTGGCAAATGGTCCTACT	424
A90092	***** * * * * * * * * * * * * * * * * *	
		476
L78163	TGGCCAGTTCCATTAGGAAGAAGGGACAGCTTAACAGCAAACCGAACCCT	
U41657	TGGCCAGTTCCATTAGGAAGAAGGGACAGCTTAACAGCAAACCGAACCCT	278
X90693	TGGAAGGTTCCTTTAGGAAGAAGAGATGGTTTAACGGCAAACCAGTTACT	487
X90694	TGGACGGTTCCTTTAGGAAGAAGGGATGGTTTAACCGCAAACCGAACACT	489
L36156	TGGACGGTTCCTTTAGGAAGAAGGGATGGTTTAACCGCAAACCGAACACT	468
X90692	TGGCAAGTTCCATTAGGAAGAAGGGATAGTTTGACAGCAAATAATTCCCT	474

L78163	TGCAAATCAAAACCTTCCAGCACCTTTCTTCAACCTCA-CTCAACTTA	523
U41657	TGCAAATCAAAACCTTCCAGCACCTTTCTTCAACCTCA-CTCAACTTA	325
	TGCTAATCAAAATCTTCCAGCTCCTTTCAATACTACTGATCAACTTA	534
X90693 X90694	TGCAAATCAAAATCTTCCGGCTCCATTCAATTCCTTGGATCAACTTA	536
L36156	TGCAAATCAAAATCTTCCGGCTCCATTCAATTCCTTGGATCACCTTA	515
X90692	TGCAGCTCAAAATCTTCCTGCCCCCACTTTCAACCTTA-CTCGACTAA	521
A30032	***. ***** ***** ** ** ** * **. **.	
		572
L78163	AAGCTTCCTTTG-CTGTTCAAGGTCTCAACACCCTTGATTTAGTTACACT	374
U41657	AAGCTTCCTTTG-CTGTTCAAGGTCTCAACACCCTTGATTTAGTTACACT	583
X90693	AAGCTGCATTTG-CTGCTCAAGGTCTCGATACTACTGATCTGGTTGCACT	585
X90694	AAGCTGCATTT-ACTGCTCAAGGCCTCAATACTACTGATCTAGTTGCACT	
L36156	AA-CTGCATTTGACTGCTCAAGGCCTCATTACTCCTGTTCTAGTTGCCCT	564
X90692	AATCTAACTTTGA-TAATCAAAACCTCAGTACTACTGATCTAGTTGCACT	570
	** **, *** *, ****, ***, ** **, ** *, **	
L78163	CTCAGGTGGTCATACGTTTGGAAGAGCTCGGTGCAGTACATTCATAAACC	622
U41657	CTCAGGTGGTCATACGTCTGGAAGAGCTCGGTGCAGTACATTCATAAACC	424
X90693	CTCCGGTGCTCATACATTTGGAAGAGCTCATTGCTCTTTATTTGTTAGCC	633
X90694	CTCGGGTGCTCATACATTTGGAAGAGCTCATTGCGCACAATTTGTTAGTC	635
L36156	CTCGGGTGCTCATACATTTGGAAGAGCTCATTGCGCACAATTTGTTAGTC	614
X90692	CTCAGGTGGCCATACAATTGGAAGAGGTCAATGCAGATTTTTCGTTGATC	620
X90692	*** **** ***** ****** **	
	$oldsymbol{a}$, which is a supply of a particle of the contraction	672
L78163	GATTATACAACTTCAGCAACACTGGAAACCCTGATCCAACTCTGAACACA	468
U41657	GATTATACAACTTCAGCAACACTGGACTGATCCA-CT-TGGACACA GATTGTACAACTTCAGCGGTACGGGAAGTCCCGATCCAACTCTTAACACA	683
X90693	GATTGTACAACTTCAGCGGTACGGGAAGTCCCGATCCAACTCTTAACACA GATTGTACAACTTCAGCAGTACTGGAAGTCCCGATCCAACTCTTAACACA	685
X90694	GATTGTACAACTTCAGCAGTACTGGAAGTCCCGATCCAACTCTTAACACA	664
L36156	GATTATACAACTTCAGCAGTACTGGAAGTCCCGATCCAACTCTTAACACT	670
X90692	**** ***** ***** ** *** ** ** ** ** **	2,3
	**** *** *** ** ** ** ** ** ** ** ** **	

Inventor: GIJZEN SN 08/939,905/Sheet 7 of 15 Atty. Dkt.: 76-105

FIGURE 3A-(3)

L78163	ACATACTTAGAAGTATTGCGTGCAAGATGCCCCCAGAATGCAACTGGGGA	722
U41657	ACATACTTAGAAGTATTGCGTGCAAGATGCCCCCAGAATGCAACTGGGGA	518
X90693	ACTTACTTACAACAATTGCGCACAATATGTCCCAATGGTGGACCTGGCAC	733
X90694	ACTTACTTACAACAACTGCGCACAATATGTCCCAATGGTGGACCTGGCAC	735
L36156	ACTTACTTACAACAACTGCGCACAATATGTCCCAATGGTGGACCTGGCAC	714
X90692	ACCTATTTACAAACATTGCAAGCAATATGTCCCAATGGTGGACCTGGTAC	720
	** ** *** * * *** *** *** * * ** *	
L78163	TAACCTCACCAATTTGGACCTGAGCACACCTGATCAATTTGACAACAGAT	772
U41657	TAACCTCACCAATTTGGACCTGAGCACACCTGATCAATTTGACAACAGAT	568
X90693	GAACCTTACCAATTTCGATCCAACGACTCCTGATAAATTTGACAAGAACT	783
X90694	AAACCTTACCAATTTCGATCCAACGACTCCTGATAAATTTGACAAGAACT	785
L36156	AAACCTTACCAATTTCGATCCAACGACTCCTGATAAATTTGACAAGAACT	764
X90692	AAACCTAACCGATTTGGACCCAACCACACCAGATACATTTGACTCCAACT	770
	.***** ***. *** * * .* **.**. ****** * * * * * * * * * * * * * * * *	
L78163	ACTACTCCAATCTTCTGCAGCTCAATGGCTTACTTCAGAGTGACCAAGAA	822
U41657	ACTACTCCAATCTTCTGCAGCTCAATGGCTTACTTCAGAGTGACCAAGAA	618
X90693	ATTACTCTAATCTTCAAGTGAAAAAAGGTTTGCTTCAAAGTGATCAAGAG	833
X90694	ATTACTCCAATCTTCAAGTGAAAAAGGGTTTGCTCCAAAGTGATCAAGAG	835
L36156	ATTACTCCAATCTTCAAGTGAAAAAGGGTTTGCTCCAAAGTGATCAAGAG	814
X90692	ACTACTCCAATCTCCAAGTTGGAAAGGGCTTGTTTCAGAGTGACCAAGAG	820
	* **** **** * ** . * * * *	
L78163	CTTTTCTCCACTCCTGGTGCTGATACCATTCCCATTGTCAATAGCTTCAG	872
U41657	CGTTTCTCCACTCCTGGTGCTGATACCATTCC-ATTGTCAATAGCTTCAG	667
X90693	TTGTTCTCAACATCTGGTTCAGATACCATTAGCATTGTCAACAAATTCGC	883
X90694	TTGTTCTCAACTTCTGGTGCAGATACCATTAGCATTGTCAACAAATTCAG	885
L36156	TTGTTCTCAACTTCTGGTGCAGATACCATTAGCATTGTCGACAAATTCAG	864
X90692	CTTTTTTCCAGAAATGGTTCTGACACTATTTCTATTGTCAATAGTTTCGC	870
	** ** * . ****.*.** ** *** ****.* * . ***.	
L78163	CAGTAACCAGAATACTTTCTTTTCCAACTTTAGAGTTTCAATGATAAAAA	922
U41657	CGAACCAGAATACTTTCTTTTCCAACTTTAGAGTTTCAATGATAAAAA	715
X90693	AACCGATCAAAAAGCTTTTTTTGAGAGCTTTAGGGCTGCTATGATCAAAA	933
X90694	CACCGATCAAAATGCTTTCTTTGAGAGCTTTAAGGCTGCAATGATTAAAA	935
L36156	CACCGATCAAAATGCTTTCTTTGAGAGCTTTAAGGCTGCAATGATTAAAA	914
X90692	CAATAATCAAACTCTCTTTTGAAAATTTTGTAGCCTCAATGATAAAAA	920
	* **.* , ** *** * * * . *	
L78163	TGGGTAATATTGGAGTGCTGACTGGGGATGAAGGAGAAATTCGCTTGCAA	972
U41657	TGGGTAATATTGGAGTGCTGACTGGGGATGAAGGAGAAATTCGCTTGCAA	765
X90693	TGGGAAATATTGGTGTTTAACCGGGAACCAAGGAGAGATTAGAAAACAA	983
X90694	TGGGCAATATTGGTGTGCTAACAGGGACAAAAGGAGAGATTAGAAAACAA	985
L36156	TGGGCAATATTGGTGTGCTAACAGGGACAAAAGGAGAGATTAGAAAACAA	964
X90692	TGGGTAATATTGGAGTTTTAACTGGATCTCAAGGTGAAATTAGAACACAG	970
		1007
L78163	TGTAATTTTGTGAATGGAGACTCGTTTGGATTAGC TGTAATTTTGTGAATGGAGACTCGTTTGGATTAGC	800
U41657	TGTAATTTGTGAATGGAGACTCGTTTGGATTAGC TGCAACTTTGTTAATTCAAAATCAGCAGAACTTGGTCTTAT	1024
X90693	TGCAACTTTGTTAATT======CAAAATCAGCAGAACTTGGTCTTAT	1035
X90694 L36156	TGCAACTTTGTGAACTTTGTGAACTCAAATTCTGCAGAACTAGATTTAGC	1005
X90692	TGTAATGCTGTGAATGGGAATTCTTCTGGATTGGC	1005
A J O O J Z	** *	



FIGURE 3A-(4)

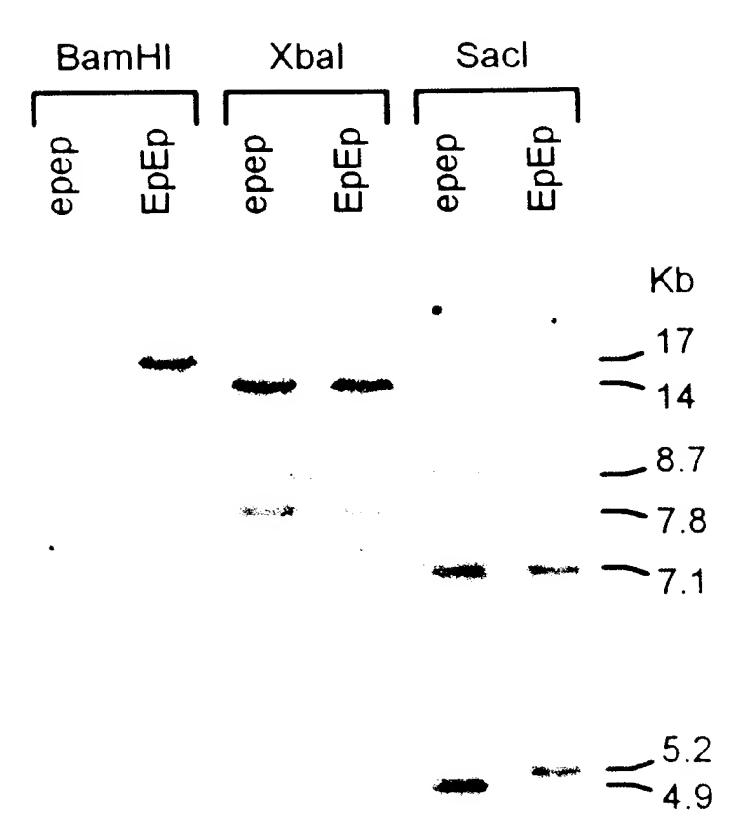
L78163	TAGTGTGGCGTCCAAAGATGCTAAACAAAAGCTTGTTGCTCAATCTAAAT	1057
U41657	TAGTGTGGCGTCCAAAGATGCTAAACAAAAGCTTGTTGCTCAATCTAAAT	850
X90693	CAATGTTGCCTCAGCAGATTCATCTG-AGGAGGGTATGGTTAG	1066
X90694	CACCATAGCATCCATAGTAG AATCATTAG - AGGATGGTATTGCTAGTG	1082
L36156	CACCATAGCATCCATAGTAGAATCATTAG-AGGATGGAATTGCTAGTG	1052
X90692	TACTGTAGTCACCAAAGAATCATCAG-AAGATGGAATGGCTAGCT	1049
Myooya	* * * * * * * * * * * * * * * * * * * *	
L78163	AAACCAATAATTAATGGGGATGTGCATGCTAGCTAGCATGTAAAGGCAAA	1107
U41657	AAACCAATAATTAATGGGGATGTCGATGCTAGCTACGATGTAAAGGCAAA	900
X90693	CTCAATGTAAA-TG-TAG	1082
X90694	TAATATAAATAAATTAGCGTAAATGCACTTATTGAA-ATCTTG	1124
L36156	TAATATAAATAAATTAGCGAAAATGCACTTATTGAA-ATCTTG	1094
X90692	CATTCTAAAT ATAAG CTTGGAAAATATTGAAGAGGTTCTAT	1090
NJ00J2		
L78163	TTAGGTTGTAAACCTCTTTGCTAGCTATATTGAAATAAACCAAAGGAGTA	1157
U41657	TTAGGTTG-AAACCTCTTTGCTAGCTATATTGAAATAAACCAAAGGAGTA	949
X90693	TGATTGGAAGCAACTAATAAATTAAGAAGCTATAACT	1119
X90694	TGACTAGATGCCACTAATAAATAAGTTATAACT	1157
	TGACTAGATCCCACTAATAAATAAGTTATAACT	1127
L36156	AATTTTGTGCATACATATATGGTATGTG	1118
X90692	· · · * · · · · * * · · · · · · · · · ·	
T 701 ()	GTGTGCATGTCAATTCGATTTTGC-CATGTACCTCTTGGAATAT	1200
L78163	GTGTCGATGTCAATTCGATTTTGC-CATGTACCTCTTGGAATATTATGTA	998
U41657	ATGCACATT-CATGGTATGTGTGAGATAGTTATTAGATGCTTTGTGAGCA	1168
X90693 X90694	AGGCACATTTCATGTCACTTGAAATTTCATGCCT-GTATATGAG	- 1200
L36156	AGGCACATTTCATGTCACTTGAAATCCTATGCCTTGTATATTAGAGGAC	G 1177
X90692	CATGTGGTGTATTATGTTTTTGTTATGTTCTTCAAGTTGATC	A 1161
A90032	**	
L78163	1200	
U41657	ATAATTATTTGAATCTCAAAAAAAAAAAAAAAA 1031	
X90693	AAAATCTTTTGGATTTCATTTGAAGTGTTTCT 1200	
X90694	1200	
L36156	TGT-TCTTCTTGGTATTATACTAT 1200	
	GGGA-CTGTAGAAGCTCCCTAATAATATTTGTGTCAAAGT 1200	
X90692	GGGIL GIGILLE .	



FIGURE 3B

L78163 U41657	MGSMRLLVVALLCAFAMHAGFSVSYAQLTPTFYEETCPNLFPIVFGV	4 7 O
X90693	MNSLRAVAIALCCIVVVLGGLPFSSNAQLDPSFYFNTCPNVSSIVREV	4 3
2.30694	MNSLATSMWCVVLLVVLGGLPFS3DAQLSPTFYSKTCPTV3SIVSNV	4 7
L36156	MWCVVLLVVLGGLPFSSDAQLSPTFYSKTCPTVSSIVSNV	4:)
X90692	MLGLSATAFCCMVFVLIGGVPFS-NAQLDPSFYNSTCSNLDSIVRGV	$4 \hat{\kappa}$
22.7880.727		
L/8163	IFDASFTDPPIGASLMRLHFHDCFVQGCDGSVLLNNTDTIESEQDALPNI	37
U41657	FHECFVQGCDGSVLLNNTDTIESEQDALPNI	31
X90693	IRSVSKKDPRMLASLVRLHEHDCFVQGCDASVLLNKTDTVVSEQDAFPNR	98
X90694	LTHVSKTDPRMLASLVRLHFHDCFVLGCDASVLLNNTATIVSEQQAFPNN	97
L36156	LTNVSKTDPRMLASLVRLHFHDCFVLGCDASVLLNNTATIVSEQQAFPNN	90
Х90692	LTNVSQSDPRMLGSLIRLHFHDCFVQGCDASILLNDTATIVSEQSAPPNN **********************************	96
T70160	NS FRGLDVVNDIKTAVENSCPUTVSCADILATAAETASVLGGGPGWPVPL	1 4 7
I.78163	NSIRGLDVVNDIKTAVENSCFDTVSCADILATAAETASVEGGGFGWFVFL	8:
041657	NSLRGLDVVNQIKTAVENSCPDIVSCADILAIAAEIASVAORROGWIVEE NSLRGLDVVNQIKTAVEKACPNTVSCADILALSAELSSTLADGPDWKVPL	148
X90693	NSLRGLDVVNQIKTAVEKACENTVSCADILALBADISSILMEDE BARCELE NSLRGLDVVNQIKLAVEVPCPNTVSCADILALAAQASSVLAQGPSWTVPL	147
X90694	NSLRGLDVVNQIKTAVESACPNTVSCADILALA-QASSVLAQGPSWTVPL	139
1.36156	NSIRGLDVINQIKTAVESACEMIVSCADILALA QASSVLAQGISWIVILL NSIRGLDVINQIKTAVENACPNTVSCADILALSAEISSDLANGPTWQVPL	146
X90692	** *** * * * * * * * * * * * * * * * *	4. 4. 9
1.78163	GRRDSLTANRTLANQNLPAPFFNLTQLKASFAVQGLNTLDLVTLSGGHTF	197
U41657	GRRDSLTANRTLANQNILPAPFFNLTQLKASFAVQGLNTLDLVTLSGGHTS	131
X90693	GRRDGLTANQLLANQNLPAPFNTTDQLKAAFAAQGLDTTDLVALSGAHTF	198
K90694	GREDGLTANRTLANQNI.PAPFNSLDQLKAAFTAQGLNTTDLVALSGAHTF	197
L36156	GREDGLTANRTLANONLPAPFNSLDHLKLHLTAQGLITPVLVALSGAHTF	169
X90692	GERDSLTANNSLAAONLPAPTENLTELKSNEDNQNLSTTDLVALSGGETI	196
	**** ** * * * * * * * * * * * * * * * *	
L78163	GRARCSTFINELYNFSNTGNPDPTLNTTYLEVLFARCPQNATGDNLTNLD	247 179
U41657	GRARCSTFINELYNFSNTGLIHLDTTYLEVLPARCPQNATGDNLTNLD	248
X90693	GRAHCSLEVSRLYNESGTGSPDPTLNTTYLQQLPTICPNGGPGTNLTNED	247
X90694	GRAHCAQEVSRLYNESSTGSPDPTLNTTYLQQLETICPNGGPGTNLTNED	239 239
L36156	GEAHCAQEVSRLYNESSTGSPDPTLNTTYLQQLETICPNGGEGTNLTNED GRGQCREEVDRLYNESNTGNEDSTLNTTYLQTLQAICPNGGPGTNLTDLD	246 246
X90692	CKCOCKERADKTITE 201 GNE DOTTULL I TOT TOT TOT TOTAL OTHER DAD	
L78163	LSTPDQFDNRYYSNLLQLNGLLQSDQELFSTPGADTIPIVNSFSSNQNTF	297
U41657	LSTPDQFDNRYYSNLLQLNGLLQSDQERFSTPGADTIPLSIA-SANQNTF	228
390693	PTTPDKFDKNYYSNLQVKKGLLQSDQELFSTSGSDTISIVNKFATDQKAF	298
X90694	PTTPDKFDKNYYSNLQVKKGLLQSDQELFSTSGADTISIVNKFSTDQNAF	297
L36156	PTTPDKFÐKNYYSNLQVKKGLLQSÐQELFSTSGAÐTISIVDKFSTDQNAF	239
X90692	PTTPDTFDSNYYSNI.QVGKGLFQSDQELFSRNGSDTISIVNSFANNQTLF	296
	FSNFRVSMIKMGNIGVLTGDEGEIRLQCNFVNGDSFGLASVAS-K	341
1.78163	FSNFRVSMIKMGNIGVLTGDEGEIKLQCNEVNGDSEGLASVAS-K FSNFRVSMIKMGNIGVLTGDEGEIFLQCNFVNGDSEGLASVAS-K	272
U41657	FESFRAAMIKMGNIGVLTGNQGEIREQCNFVNSKSAELGLINVAS-A	344
X90693 X90694	FESFKAAMIKMGNIGVLTGTKGEIPKQCNFVNFVNSNSAELDLATIASIV	347
L36156	FESFKAAMIKMGNIGVLTGTEGEIFFQCNFVNSNSAELDLATIASIV	336
X90692	FENFVASMIKMGNIGVLTGSQGEIKTQCNAVNGNSSGLATVVT-K	340
4000000	* . * * * * * * * * * * * * * * * *	
178163	DAKQKLVAQSK 352	
041697	DAKQKLVAQSK 283	
X90693	DSSEEGMVSJM 355	
X90694	ESLEDGIASVI 358	
L36156	ESLEDGIASVI 347	
X90692	ESSEDGMASSF 361	

P. D. ADEMS BY OCT 2 1 2002 Inventor: GIJZEN SN 08/939,905/Sheet 10 of 15 Atty. Dkt.: 76-105



---3.4

FIGURE 4

OTP & 3002 4

Inventor: GIJZEN SN 08/939,905/Sheet 11 of 15 Atty. Dkt.: 76-105

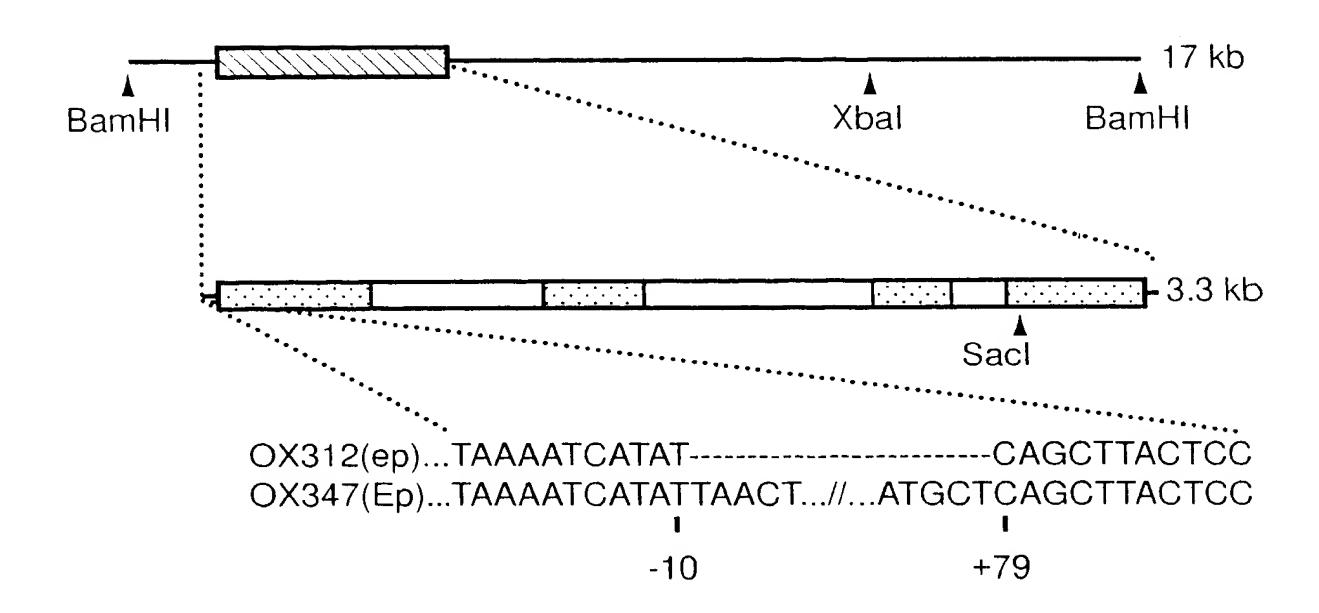


FIGURE 5

WIEW TRADEMARY OCT 2 1 2002 Inventor: GIJZEN SN 08/939,905/Sheet 12 of 15 Atty. Dkt.: 76-105

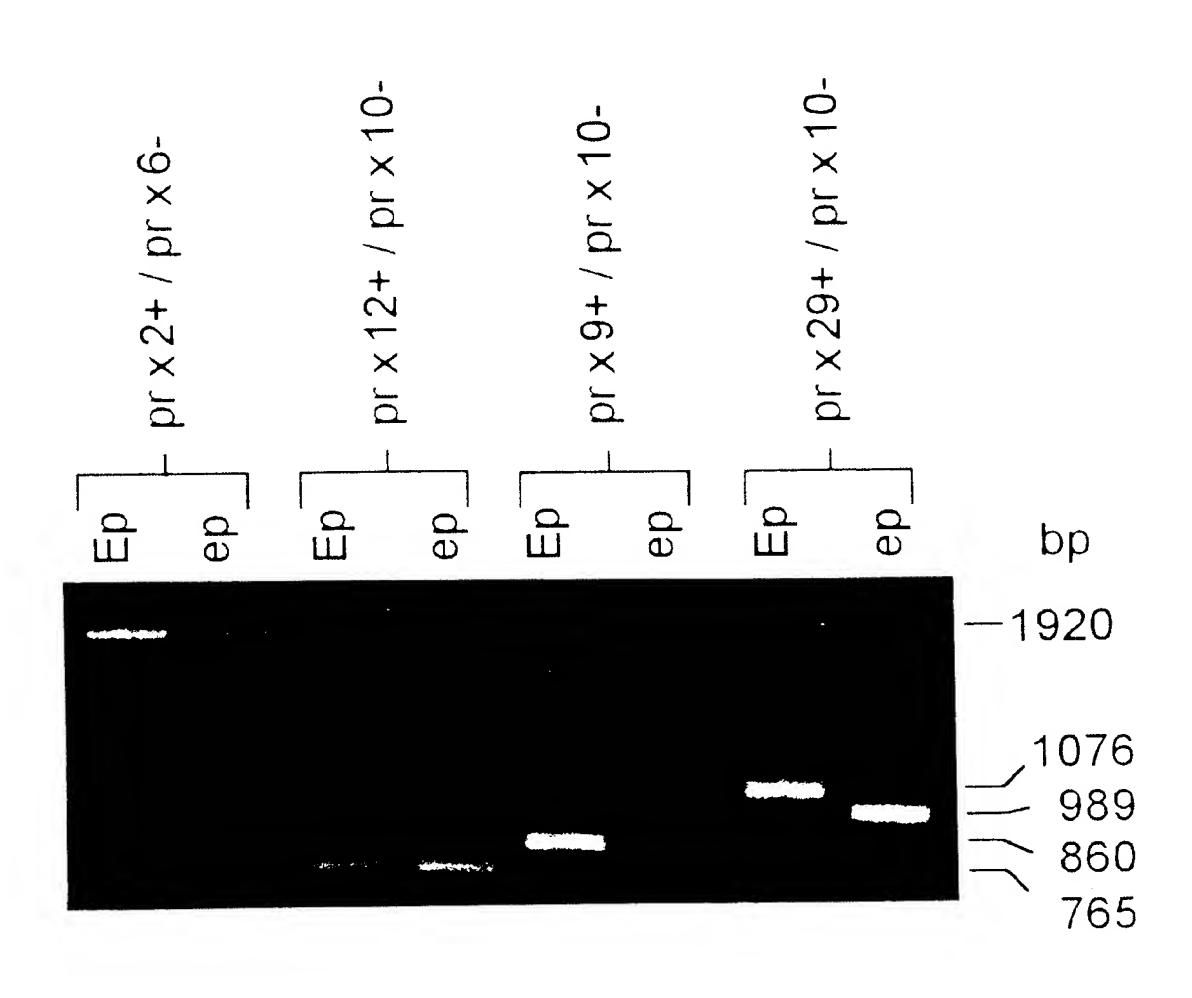


FIGURE 6



Inventor: GIJZEN SN 08/939,905/Sheet 13 of 15 Atty. Dkt.: 76-105

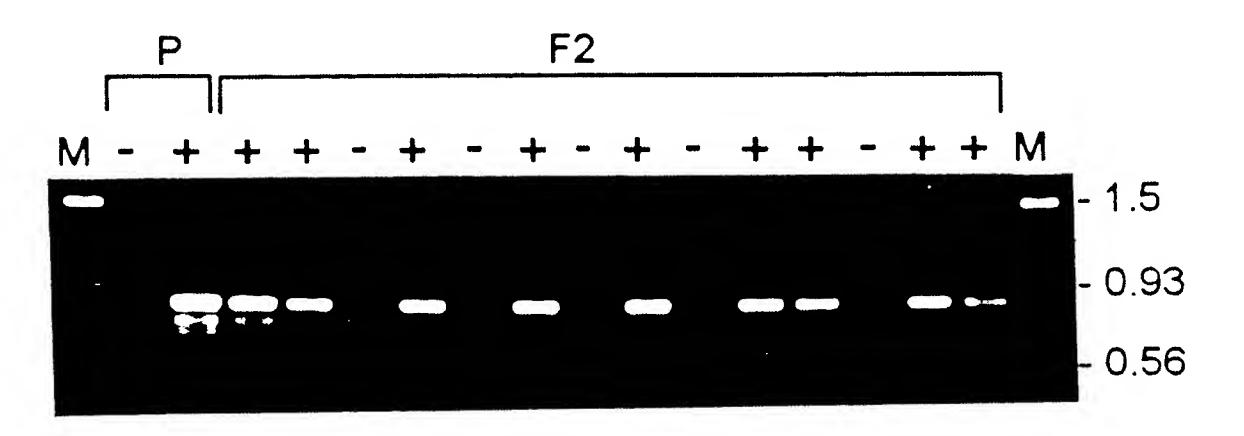


FIGURE 7A

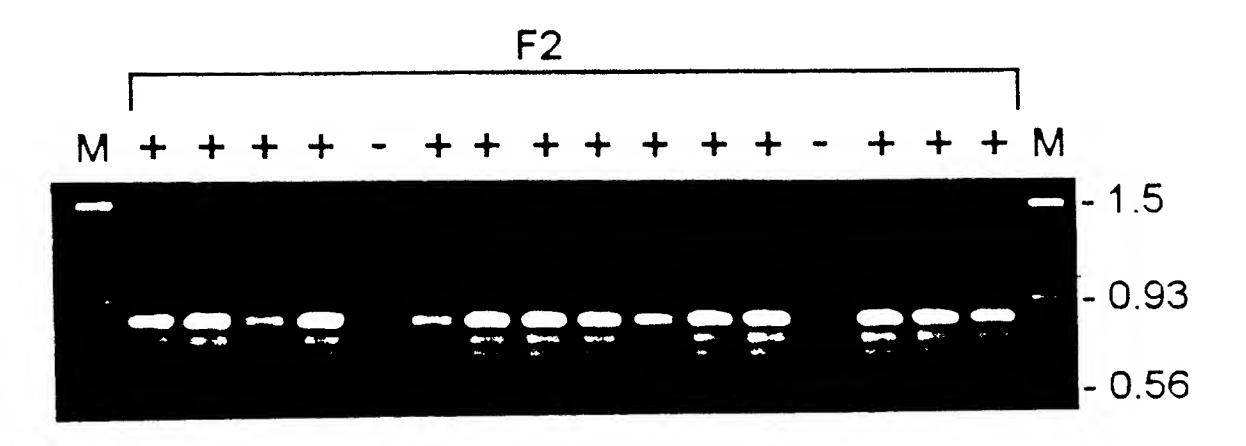
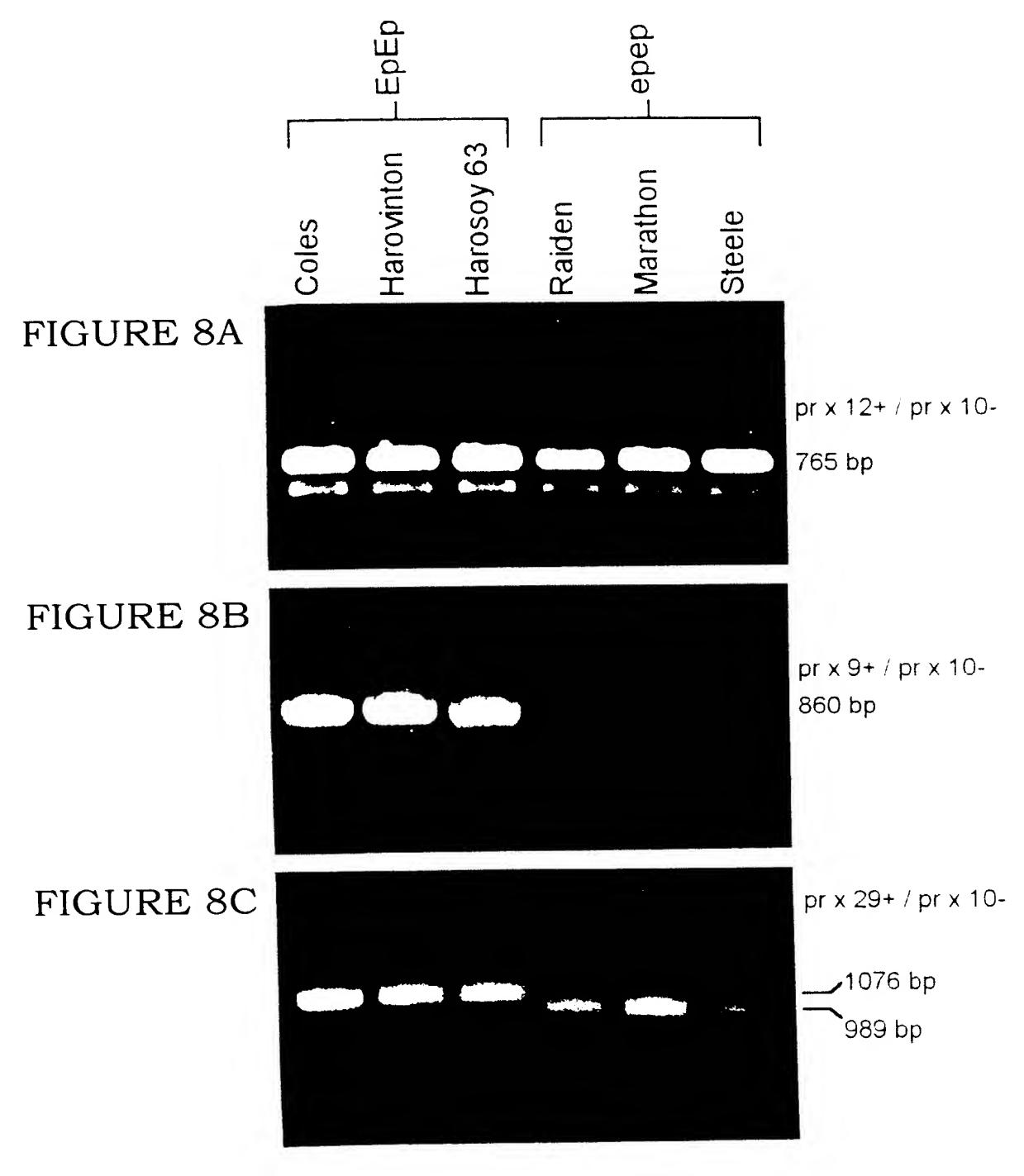


FIGURE 7B

W. W. ADEMOPH

Inventor: GIJZEN SN 08/939,905/Sheet 14 of 15 Atty. Dkt.: 76-105





SN 08/939,905/Sheet 15 of 15 Atty. Dkt.: 76-105

Seed Coat
Seed Coat
Boot
Leaf
Leaf

FIGURE 9A



FIGURE 9B

